

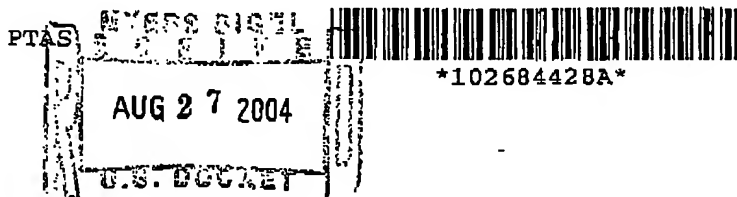
EXHIBIT B



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UNITED STATES PATENT AND TRADEMARK OFFICEUNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 23, 2004

MYERS BIGEL SIBLEY & SAJOVEC
D. RANDAL AYERS
P.O. BOX 37428
RALEIGH, NC 27627**UNITED STATES PATENT AND TRADEMARK OFFICE
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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/23/2004

REEL/FRAME: 015021/0179
NUMBER OF PAGES: 3BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 5649-1235ASSIGNOR:
SONG, TAE-JOONG

DOC DATE: 02/09/2004

ASSIGNEE:
SAMSUNG ELECTRONICS CO., LTD.
416 MAETAN-DONG, PALDAL-GU
SUWON-CITY, KYUNGKI-DO
REPUBLIC
OF KOREA

SERIAL NUMBER: 10783481

FILING DATE: 02/20/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: MEMORY DEVICES HAVING BIT LINE PRECHARGE CIRCUITS WITH OFF CURRENT
PRECHARGE CONTROL AND ASSOCIATED BIT LINE PRECHARGE METHODS

02-27-04 10:10:14

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015021/0179 PAGE 2

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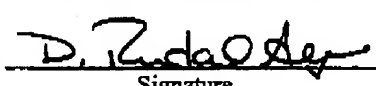
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NO. 7032 P. 15/36

ASSIGNMENT RECORDER

03-04-2004

Patents On.

To the Honorable Commissioner: 		Date: February 20, 2004 Attorney Docket No. 5649-1235			
Please record the attached orig. 102684428		<div style="float: right; text-align: center;">  17497 U.S. PTO 10783481 </div>			
1. Name of conveying party(ies): <div style="text-align: center;"> 1) Tae-joong Song 2.23-04 </div>				2. Name and address of receiving party(ies): Samsung Electronics Co., Ltd. 416 Maetan-dong, Paldal-gu Suwon-City, Kyungki-do REPUBLIC OF KOREA	
Additional name(s) of conveying party(ies) attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				Additional name(s) & address(es) attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: 1) February 9, 2004				4. Application Serial No. _____ Patent No. _____ If this document is being filed together with a new application, the execution date of the application is: 1) February 9, 2004 Additional numbers attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
5. Name and address of party to whom correspondence concerning document should be mailed: D. Randal Ayers Myers Bigel Sibley & Sajovec P. O. Box 37428 Raleigh NC 27627		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) <u>\$40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 50-0220			
DO NOT USE THIS SPACE					
9. Statement and signature <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> D. Randal Ayers, Reg. No. 40,493 Name of Person Signing </div> <div style="width: 40%; text-align: center;">  Signature </div> <div style="width: 15%; text-align: center;"> February 20, 2004 Date </div> </div>					
Total number of pages including cover sheet, attachments and document: 3					

03/04/2004 DBYRHE 00000011 10783481

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40.00 BP

Attorney Docket 5649-1235

ASSIGNMENT

THIS ASSIGNMENT, made by me, Tae-joong Song; a citizen of Korea, residing at 306-1002, Shinyoungton Hyundaitown, 860, Banwol-ri, Tacan-cup, Hwaseong-gun, Kyungki-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, I am the sole inventor of certain new and useful improvements in **MEMORY DEVICES HAVING BIT LINE PRECHARGE CIRCUITS WITH OFF CURRENT PRECHARGE CONTROL AND ASSOCIATED BIT LINE PRECHARGE METHODS**, for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. I hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known or to file this Assignment concurrently with the application, and

WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation having a principal place of business at 416 Maetan-dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

I hereby request that said Letters Patent be issued in accordance with this assignment.

I further covenant and agree that, at the time of the execution and delivery of these presents, I possess full title to the invention and application above-mentioned, and that I have the unencumbered right and authority to make this assignment.

I further covenant and agree to bind my heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 9th day of February, ~~2003~~
2004.

Tae-joong Song (SEAL.)
Tae-joong Song

Witnessed by:

Date: _____